



NORTH-HOLLAND

## Author Index for Volumes 241-260

- ABELED, HERNÁN AND BLUM, YOSEF: Stable Matchings and Linear Programming, **245:321-333**
- ABERTH, OLIVER: The Solution of Linear Interval Equations by a Linear Programming Method, **259:271-279**
- ABOU-KANDIL, H.: *See* Freiling, G.
- ADIN, RON M. AND KOFELIOVICH, YAACOV: Short Eigenvectors and Multidimensional Theta Functions, **257:49-63**
- AHARONI, RON, MARITZ, MILTON, AND MESHULAM, ROY: Fourier Transform Imitations, **257:201-209**
- ALBRECHT, J.: Minimal Norms of Nonnegative Irreducible Matrices, **249:125-258**
- ALPAY, DANIEL AND DYN, HARRY: On a New Class of Realization Formulas and Their Application, **241-243:3-84**
- AMARI, SHUN-ICHI: *See* Ohara, Atsumi
- AMBIKKUMAR, S. AND DRURY, S. W.: A Reverse Hadamard Inequality, **247:83-95**
- AMMAR, C. S., CALVETTI, D., AND REICHEL, L.: Continuation Methods for the Computation of Zeros of Szegő Polynomials, **249:125-155**
- AMODIO, P. AND PAPRZYCKI, M.: Parallel Solution of Almost Block Diagonal Systems on a Hypercube, **241-243:85-103**
- ANDERSON, B. D. O.: *See* Clements, D. J.
- ANDERSON, JOEL: A Secular Equation for the Eigenvalues of a Diagonal Matrix Perturbation, **246:49-70**
- ANDO, T.: Hadamard Products and Golden-Thompson Type Inequalities, **241-243:105-112**
- ANDRADE, RAÚL AND LABRA, ALICIA: On a Class of Baric Algebras, **245:49-53**
- ANDRUCHOW, E., CORACH, G., AND STOKANOFF, D.: Geometric Operator Inequalities, **258:295-310**
- AROV, D. Z. AND BONDARCHUK, N. V.: On the Solution of Matrix Inequalities in the Kalman-Yakubovich Theorem via Hidden Parameters of Positive Rational Functions, **246:1-11**
- ASAI, NOBUYOSHI: *See* Ikebe, Yasuhiko
- ASHLOCK, DANIEL A., DRIESSEL, KENNETH R., AND HENTZEL, IRVIN R.: On Matrix Structures Invariant Under Toda-like Isospectral Flows, **254:29-48**
- ATKIN, A. O. L., BOROS, ENDRE, CECILÁROVÁ, KATARINA, AND PELED, URI N.: Powers of Circulants in Bottleneck Algebra, **258:137-148**
- AUGOT, DANIEL AND CAMION, PAUL: On the Computation of Minimal Polynomials, Cyclic Vectors, and Frobenius Forms, **260:61-94**
- AUJLA, JASPAL SINGH: Some Operator Equalities Involving Connections and Means, **259:223-228**
- AUJLA, JASPAL SINGH AND VASUDEVA, H. L.: Some Convex and Monotone Matrix Functions, **248:47-60**
- BAI, ZHONGZHI AND WANG, DEREN: A Class of New Hybrid Algebraic Multilevel Preconditioning Methods, **260:223-255**
- BALL, JOSEPH A. AND KIM, JEONGOOK: Bitangular Interpolation Problems for Symmetric Rational Matrix Functions, **241-243:113-152**
- BAPAT, R. B., JAIN, S. K., AND PATI, S.: Weighted Moore-Penrose Inverse of a Boolean Matrix, **255:267-279**
- BARKER, GEORGE PHILLIP AND TAM, BITSHUN: Baer Semirings and Baer \*-Semirings of Cone-Preserving Maps, **256:165-183**
- BARRETT, WAYNE: *See* Lundquist, Michael
- BART, H., KAASHOEK, M. A., AND RAN, A. C. M.: Conference Report, **241-243:897-900**
- BART, H. AND KROON, L. G.: Companion Based Matrix Functions: Description and Minimal Factorization, **248:1-46**
- BART, HARM AND KROON, LEO G.: Factorization and Job Scheduling: A Connection via Companion Based Factorization and Job Scheduling: A Connection via Companion Based Matrix Functions, **248:111-136**
- BASZENSKI, GÜNTER AND TASCHKE, MANFRED: Fast Polynomial Multiplication and Convolutions Related to the Discrete Cosine Transform, **252:1-25**

LINEAR ALGEBRA AND ITS APPLICATIONS 260:329-342 (1997)

© Elsevier Science Inc., 1997  
655 Avenue of the Americas, New York, NY 10010

0024-3795/97/\$17.00

- BEASLEY, LEROY B., KIM, AN-HYUN, AND LEE, WOO YOUNG: On a Positive Linear Map Preserving Absolute Values, **260**:311-318
- BEN ARTZI, A. AND COHBERG, I.: Monotone Power Method in Indefinite Metric and Inertia Theorem for Matrices, **241-243**: 153-166
- BERCOVICI, HARI, LI, WING SUET, AND SMOTZER, THOMAS: Classical Linear Algebra Inequalities for the Jordan Models of  $C_0$  Operators, **251**:341-350
- BERG, JORDAN M. AND KWATNY, HARRY G.: Unfolding the Zero Structure of a Linear Control System, **258**:19-39
- BEVILACQUA, ROBERT AND BOZZO, ENRICO: On Algebras of Symmetric Loewner Matrices, **248**:241-251
- BHATIA, RAJENDRA: A Note on the Lyapunov Equation, **259**:71-76
- BLAKE, IAN F., CAO, SHUHONG, AND MULLIN, RONALD C.: Specific Irreducible Polynomials With Linearly Independent Roots Over Finite Fields, **253**:227-249
- BLUM, YOSEF: *See* Abeledo, Hernán
- BOJANCZYK, ADAM: *See* Heinig, Georg
- BOLOTNIKOV, VLADIMIR: On a General Moment Problem on the Half Axis, **255**:57-112
- BOMZE, IMMANUEL M.: Block Pivoting and Shortcut Strategies for Detecting Copositivity, **248**:161-184
- BONDARCHUK, N. V.: *See* Arav, D. Z.
- BONDARI, SIAMACK: Constructing the Polynomial Identities and Central Identities of Degree  $< 9$  of  $3 \times 3$  Matrices, **258**: 233-249
- BOROBIA, ALBERTO, NUTOV, ZEEV, AND PENN, MICHAEL: Doubly Stochastic Matrices and Dicycle Covers and Packings in Eulerian Digraphs, **246**:361-371
- BOROS, ENDRE: *See* Atkin, A. O. L.
- BOTHA, J. D.: Products of Matrices With Prescribed Nullities and Traces, **252**:173-198
- BOWMAN, K.: *See* Towers, D. A.
- BOWMAN, KEVIN AND TOWERS, DAVID A.: On Almost Nilpotent-by-Abelian Lie Algebras, **247**:159-167
- BOZZO, ENRICO: *See* Bevilacqua, Robert
- BREEN, MICHAEL AND HUME, DAVID: Properties of a Standard Form for a Boolean Matrix, **254**:49-65
- BRU, RAFAEL, COLL, CARMEN, HERNÁNDEZ, VICENTE, AND SÁNCHEZ, ELENA: Geometrical Conditions for the Reachability and Realizability of Positive Periodic Discrete Systems, **256**:109-124
- BRUALDI, RICHARD, HWANG, SUK-GEUN, AND PYO, SUNG-SOO: Vector Majorization via Positive Definite Matrices, **257**:105-120
- BULTHEEL, ADHEMAR: *See* Van Barel, Marc
- BÜNGER, FLORIAN, KNÜPPEL, FRIEDER, AND NIELSEN, KLAUS: Products of Symmetries in Unitary Groups, **260**:9-42
- CAI, DONGSHENG: *See* Ikebe, Yasuhiko
- CALVETTI, D.: *See* Ammar, G. S.
- CAMION, PAUL: *See* Augot, Daniel
- CANTÓ, RAFAEL AND CLIMENT, JOAN-JOSEP: Singular Graph and Extension of Jordan Chains of an  $M$ -Matrix, **241-243**:167-189
- CAO, DASONG, CHVÁTAL, V., HOFFMAN, A. J., AND VINCE, A.: Variations on a Theorem of Ryser, **260**:215-222
- CAO, MENGLIN AND FERRIS, MICHAEL C.:  $B_2$ -Matrices and the Linear Complementarity Problem, **246**:299-312
- CAO, ZHI-HAO, XIE, JIN-JUN, AND LI, REN-CANG: A Sharp Version of Kahan's Theorem on Clustered Eigenvalues, **245**:147-155
- CARPRAUX, J.-F., GODUNOV, S. K., AND KUZNETSOV, S. V.: Condition Number of the Krylov Bases and Subspaces, **248**:137-160
- CECHLÁROVÁ, KATARÍNA: *See* Atkin, A. O. L.
- CECHLÁROVÁ, KATARÍNA: On the Powers of Matrices in Bottleneck/Fuzzy Algebra, **246**:97-111
- CECHLÁROVÁ, KATARÍNA AND KOLESÁR, KAROL: Strong Regularity of Matrices in a Discrete Bounded Bottleneck Algebra, **256**:141-152
- CEVIC, M. K. K. AND SCHUMACHER, J. M.: Regulation as an Interpolation Problem, **253**:311-340
- CHANDRASEKARAN, R.: *See* Lakshminarayanan, Sambhavi
- CHANDRASEKARAN, R., KABADI, S. N., AND LAKSHMINARAYANAN, S.: An Extension of a Theorem of Fulkerson and Gross, **246**: 23-29
- CHANG, SHU-CHU: Double Coset Decomposition for  $SL(r+s, Z)$  With Respect to Congruence Subgroups, **244**:1-11
- CHANG, SHU-CHU AND LEE, CHENG: Two-Sided Equivalence on the Special Linear Group, **246**:191-202
- CHEN, GONG-NING, ZHAO, BIN, AND ZHANG, HUI-PIN: The General Rational Interpolation Problem in the Scalar Case and Its Hankel Vector, **244**:165-201
- CHEN, GUOLIANG, WEI, MUSHENG, AND XUE, YIFENG: Perturbation Analysis of the Least

- Squares Solution in Hilbert Spaces, **244**: 69-80
- CHEN, YONGHONG AND NEUMANN, M.: M-Matrix Generalized Inverses of M-Matrices, **256**:263-285
- CHI, MEI-HSIU: The Long-Run Behavior of Markov Chains, **244**:111-121
- CHIEN, MAO-TING: On the Numerical Range of Tridiagonal Operators, **246**:203-214
- CHOI, MAN-DUEN, HOU, JINCHUAN, AND ROSENTHAL, PETER: Completion of Operator Partial Matrices to Square-Zero Contractions, **256**:1-30
- CHONGGUANG, CAO AND XIAN, ZHANG: Additive Operators Preserving Idempotent Matrices Over Fields and Applications, **248**:327-338
- CHVÁTAL, V.: See Cao, Dasong
- CLEMENTS, D. J., ANDERSON, B. D. O., LAUB, A. J., AND MATSON, J. B.: Spectral Factorization With Imaginary-Axis Zeros, **250**:225-252
- CLIMENT, JOAN-JOSEP: See Cantó, Rafael
- COELHO, M. PURIFICAÇÃO: On Linear Preservers on Immanants, **247**:265-271
- COELHO, M. PURIFICAÇÃO AND DUFFNER, M. ANTÓNIA: Linear Preservers of Immanants on Symmetric Matrices, **255**:315-334
- COHEN, NIR AND DANCIS, JEROME: Maximal Rank Hermitian Completions of Partially Specified Hermitian Matrices, **244**:265-276
- COHEN, NIR AND LEWKOWICZ, IZCHAK: Convex Invertible Cones and the Lyapunov Equation, **250**:105-131
- COLL, CARMEN: See Bru, Rafael
- COMPTA, A. AND FERRER, J.: On  $(A, B)^t$ -Invariant Subspaces Having Extendible Brunovsky Bases, **255**:185-201
- CONFORTI, MICHELE, CORNUÉJOLS, GÉRARD, AND DE FRANCESCO, CARLA: Perfect  $0, \pm 1$  Matrices, **253**:299-309
- CORACH, G.: See Andruchow, E.
- CORNUÉJOLS, GÉRARD: See Conforti, Michele
- COWEN, C. C., FERGUSON, P. A., JACKMAN, D. K., SEXAUER, E. A., VOGT, C., AND WOLF, H. J.: Finding Norms of Hadamard Multipliers, **247**:217-235
- CRITCHLEY, FRANK AND FICHET, BERNARD: On (Super-) Spherical Distance Matrices and Two Results From Schoenberg, **251**:145-165
- CULLER, KRISTEN W. AND PRICE, GEOFFREY L.: On the Ranks of Skew-Centrosymmetric Matrices Over Finite Fields, **248**:317-325
- CURTAIN, RUTH AND GREEN, MICHAEL: Analytic System Problems and  $J$ -Lossless Coprime Factorization for Infinite-Dimensional Linear Systems, **257**:121-161
- D'ALESSANDRO, DOMENICO: Geometric Aspects of the Riccati Difference Equation in the Nonsymmetric Case, **255**:1-18
- DANAO, R. A.: A Note on  $E'$ -Matrices, **259**:299-305
- DANCIS, JEROME: See Cohen, Nir
- DATTA, BISWA N., ELHAY, SYLVAN, AND RAM, YITSHAK M.: Orthogonality and Partial Pole Assignment for the Symmetric Definite Quadratic Pencil, **257**:29-48
- DAUPHIN-TANGUY, G.: See Rahmani, A.
- DAUPHIN-TANGUY, G.: See Sœur, C.
- DAZORD, JEAN: Une Propriété Extrémale de la Diagonale d'Une Matrice, **254**:67-77
- DEALBA, LUZ M.: Inertia of the Stein Transformation With Respect to Some Nonderogatory Matrices, **241-243**:191-201
- DE CAEN, D.: Degree of Indecomposability of Certain Highly Regular Zero-One Matrices, **247**:151-158
- DE FRANCESCO, CARLA: See Conforti, Michele
- DE MOOR, BART: See De Schutter, Bart
- DE OLIVEIRA, G. N.: Linear Preservers of Schur Functions, **241-243**:203-210
- DE-REN, WANG AND ZHONG-ZHI, BAI: Parallel Multilevel Iterative Methods, **250**:317-347
- DE SA, EDUARDO MARQUES: The faces of the Unit Balls of  $c$ -Norms and  $c$ -Spectral Norms, **246**:177-189
- DE SA, EDUARDO MARQUES: The Stability of the Unit Balls of Symmetric and Unitarily Invariant Norms, **250**:207-218
- DE SCHUTTER, BART AND DE MOOR BART: The Singular-Value Decomposition in the Extended Max Algebra, **250**:143-176
- DIAS DA SILVA, J. A.: Multilinear Algebra: Recent Applications, **241-243**:211-223
- DIAS DA SILVA, J. A.: New Conditions for Equality of Decomposable Symmetrized Tensors, **245**:353-372
- DIECI, LUCA: Considerations on Computing Real Logarithms of Matrices, Hamiltonian Logarithms, and Skew-Symmetric Logarithms, **244**:35-54
- DRIESSEL, KENNETH R.: See Ashlock, Daniel A.
- DRMAC, ZLATKO: On Relative Residual Bounds for the Eigenvalues of a Hermitian Matrix, **244**:155-163

- DRURY, S. W.: *See* Ambikumar, S.
- DRURY, S. W.: The Determinantal Conjecture and Hadamard Type Inequalities, **246**:279-297
- DUFFNER, M. ANTÓNIA: *See* Coelho, M. Purificação
- DUN-HE, GU: *See* Yi-Sheng, Yu
- DYM, HARRY: *See* Alpay, Daniel
- ELHAY, SYLVAN: *See* Datta, Biswa N.
- ELLIS, ROBERT L., GOHBERG, ISRAEL, AND LAY, DAVID C.: On a Class of Block Toeplitz Matrices, **241-243**:225-245
- ELSNER, L.: Bounds for Determinants of Perturbed  $M$ -Matrices, **257**:283-288
- ELSNER, L. AND FRIEDLAND, S.: Norm Conditions for Convergence of Infinite Products, **250**:133-142
- ELSNER, L. AND IKRAMOV, KH. D.: On a Condensed Form for Normal Matrices Under Finite Sequences of Elementary Unitary Similarities, **254**:79-98
- ERN, ALEXANDRE AND GIOVANGIGLI, VINCENT: Projected Iterative Algorithms With Application to Multicomponent Transport, **250**:298-315
- ESCHENBACH, CAROLYN A., HALL, FRANK J., JOHNSON, CHARLES R., AND LI, ZHONGSHAN: The Graphs of the Unambiguous Entries in the Product of Two  $(+, -)$  Sign Pattern Matrices, **260**:95-118
- ESCHENBACH, CAROLYN A., HALL, FRANK J., AND LI, ZHONGSHAN: Some Sign Patterns That Allow a Real Inverse Pair  $B$  and  $B^{-1}$ , **252**:299-321
- ESCHENBACH, CAROLYN A. AND LI, ZHONGSHAN: How Many Negative Entries Can  $A^2$  Have? **254**:99-117
- EVESON, S. P.: The Eigenvalue Distribution of Oscillatory and Strictly Sign-Regular Matrices, **246**:17-21
- FALLAT, SHAWN, OLESKY, D. D., AND VAN DEN DRIESCHE, P.: Graph Theoretic Aspects of Maximizing the Spectral Radius of Nonnegative Matrices, **253**:61-77
- FELDMANN, SVEN AND HEINIG, GEORG: Vandermonde Factorization and Canonical Representations of Block Hankel Matrices, **241-243**:247-278
- FERGUSON, P. A.: *See* Cowen, C. C.
- FERNG, WILLIAM R., LIN, KUN-YI, AND LIN, WEN-WEI: A Novel Nonsymmetric  $K_-$ -Lanczos Algorithm for the Generalized Nonsymmetric  $K_-$ -Eigenvalue Problems, **252**:81-105
- FERRANTE, AUGUSTO AND LEVY, BERNARD C.: Hermitian Solutions of the Equation  $X = Q + NX^{-1}N$ , **247**:359-373
- FERRER, J.: *See* Compta, A.
- FERRER, J. AND GARCÍA-PLANAS, M<sup>a</sup>. I.: Structural Stability of Quadruples of Matrices, **241-243**:279-290
- FERRER, J., GARCÍA, M<sup>a</sup> I., AND PUERTA, F.: Brunowsky Local Form of a Holomorphic Family of Pairs of Matrices, **253**:175-198
- FERRIS, MICHAEL C.: *See* Cao, Menglin
- FICHET, BERNARD: *See* Critchley, Frank
- FIEDLER, MIROSLAV: Some Inverse Problems for Acyclic Matrices, **253**:113-123
- FIEDLER, MIROSLAV AND MARKHAM, THOMAS L.: Some Inequalities for the Hadamard Product of Matrices, **246**:13-16
- FIEDLER, MIROSLAV AND PTÁK, VLASTIMIL: A New Positive Definite Geometric Mean of Two Positive Definite Matrices, **251**:1-20
- FIEDLER, MIROSLAV AND PTÁK, VLASTIMIL: Block Analogies of Comparison Matrices, **256**:95-108
- FIEDLER, MIROSLAV AND PTÁK, VLASTIMIL: Strong Majorization for Hermitian Matrices, **255**:281-301
- FLEISCHMANN, PETER: Polynomial Identities for Orbit Numbers of General Linear and Unitary Groups Over Finite Fields, **253**:341-362
- FONG, CHE KAO AND WU, PEI YUAN: Band-Diagonal Operators, **248**:185-204
- FORNASINI, ETTORRE AND VALCHER, MARIA ELENA: On the Spectral and Combinatorial Structure of 2D Positive Systems, **245**:223-258
- FREILING, G., JANK, G., AND ABOU-KANDIL, H.: Generalized Riccati Difference and Differential Equations, **241-243**:291-303
- FREUND, ROLAND W. AND MALHOTRA, MANISH: A Block QMR Algorithm for Non-Hermitian Linear Systems With Multiple Right-Hand Sides, **254**:119-157
- FRIEDLAND, S.: *See* Elsner, L.
- FRIEDLAND, SHMUEL: Discrete Groups of Unitary Isometries and Balls in Hyperbolic Manifolds, **241-243**:305-341
- FRIEDLAND, SHMUEL: On the Entropy of  $\mathbb{Z}^d$  Subshifts of Finite Type, **252**:199-220
- FRIEDLAND, SHMUEL AND NABBEN, REINHARD: On the Second Real Eigenvalue of Nonnegative and  $Z$ -Matrices, **255**:303-313
- FUHRMANN, P. A.: *See* Hoffmann, J. W.
- FUNG, HON-KWOK: A Note on Linear Transformations Which Leave Controllable Mul-

- tiinput Descriptor Systems Controllable, **247:327-336**
- FUNG, HON-KWOK: Linear Preservers of Controllability and/or Observability, **246:335-360**
- FUSTER, R., MIGALLÓN, V., AND PENADÉS, J.: Parallel Chaotic Extrapolated Jacobi-like Methods, **247:237-250**
- GABRIEL, RICHARD: Minimierung der Euklidischen Norm einer komplexen Matrix durch ebene Similaritäten, **252:261-297**
- GALLIVAN, K. A., THIRUMALAI, S., VAN DOOREN, P., AND VERMAUT, V.: High Performance Algorithms for Toeplitz and Block Toeplitz Matrices, **241-243:343-388**
- GALLOPOULOS, E.: See Simoncini, V.
- GAMAGE, JINADASA K.: Generalized  $p$ -Values and the Multivariate Behrens-Fisher Problem, **253:369-377**
- GAO, SHUHONG: See Blake, Ian F.
- GAO, YI-MING AND WANG, XIAO-HUI: Criteria for Generalized Diagonally Dominant Matrices and  $M$ -Matrices II, **248:339-353**
- GARCIA, M<sup>a</sup> I.: See Ferrer, J.
- GARCIA-PLANAS, M<sup>a</sup> I.: See Ferrer, J. Gohberg, I.: See Ben Artzi, A.
- GARCIA-PLANAS, M<sup>a</sup> I. AND MAGRET, M<sup>a</sup> D.: Deformation and Stability of Triples of Matrices, **254:159-192**
- GEERTS, TON: Higher-Order Continuous-Time Implicit Systems: Consistency and Weak Consistency, Impulse Controllability, Geometric Concepts, and Invertibility Properties, **244:203-253**
- GEERTS, TON: Infinite-Horizon Linear-Quadratic Control With End-Point State Penalty Term: The Discrete-Time Case, **259:251-269**
- GEMIGNANI, LUCA: Computationally Efficient Applications of the Euclidean Algorithm to Zero Location, **249:79-91**
- GEMIGNANI, LUCA: Schur Complements of Bezoutians and the Inversion of Block Hankel and Block Toeplitz Matrices, **253:39-59**
- GENIN, YVES V.: Euclid Algorithm, Orthogonal Polynomials, and Generalized Routh-Hurwitz Algorithm, **246:131-158**
- GENIN, YVES V.: On Polynomials Nonnegative on the Unit Circle and Related Questions, **247:317-325**
- GETZ, NEIL H. AND MARSDEN, JERROLD E.: Dynamical Methods for Polar Decomposition and Inversion of Matrices, **258:311-343**
- GIBSON, PETER, M.: Sign-Nonsingular Skew-Symmetric Matrices With the Most Nonzero Entries, **244:97-109**
- GIL', M. I.: A Nonsingularity Criterion for Matrices, **253:79-87**
- GIOVANGIGLI, VINCENT: See Ern, Alexandre
- GODSIL, C. D.: Compact Graphs and Equitable Partitions, **255:259-266**
- GODUNOV, S. K.: See Carpraux, J.-F.
- GODUNOV, S. K. AND SADKANE, M.: Elliptic Dichotomy of a Matrix Spectrum, **248:205-232**
- GOHBERG, I.: See Ben Artzi, A.
- GOHBERG, I., KAASHOEK, M. A., AND KOS, J.: The Asymptotic Behavior of the Singular Values of Matrix Powers and Applications, **245:55-76**
- GOHBERG, I., KAASHOEK, M. A., AND LERER, L.: Factorization of Banded Lower Triangular Infinite Matrices, **247:347-357**
- GOLDBERG, MOSHE: Morris Newman—a Discreet Mathematician for All Seasons, **254:7-18**
- GOLDWASSER, JOHN L.: Shortened and Punctured Codes and the MacWilliams Identities, **253:1-13**
- GOLDWASSER, JOHN L.: Triangular Blocks of Zeros in  $(0, 1)$  Matrices With Small Permanents, **252:367-374**
- COLLAN, HOLGER W. AND MICHLER, GERHARD O.: Construction of a 45,694-Dimensional Simple Module of Lyons' Sporadic Group Over  $GF(2)$ , **256:185-197**
- GONG, MING-PENG: Semigroups Defined by Generalized Schur Functions, **257:65-75**
- GONZÁLEZ, S., GUTIÉRREZ, J. C., AND MARTINEZ, C.: On Regular Bernstein Algebras, **241-243:389-400**
- GONZÁLEZ-VEGA, LAUREANO: An Elementary Proof of Barnett's Theorem About the Greatest Common Divisor of Several Univariate Polynomials, **247:185-202**
- GOUEIA, M. C.: Regular Hankel Matrices Over Integral Domains, **255:335-347**
- GRACIA, JUAN-MIGUEL, ORTIZ DE ELGUEA, LOURDES, AND SODUPE, MARIA-JOSÉ: Matrix Pencil Generated by a Tensor Product From Two Matrix Pencils, **249:289-310**
- GREEN, BRYAN C. J., OLESKY, D. D., AND VAN DEN DRIESSCHE, P.: Classes of Sign Nonsingular Matrices With a Specified Number of Zero Entries, **248:253-275**
- GREEN, MICHAEL: See Curtain, Ruth
- GREGORY, DAVID A., VANDER MEULEN, KEVIN N., AND SHADER, BRYAN L.: Skew Rank Decompositions, **244:123-154**
- GRUNENFELDER, LUZIUŠ AND KOŠIR, TOMAŽ: On Representation of Commuting Maps by Tensor Products, **251:215-222**
- GU, D.-W.: See Konstantinov, M. M.

- GUORONG, WANG: See Yimin, Wei
- GUSEINOV, GUSEIN AND TERZILER, MEHMET: The Eigenvalue Problem for a Matrix of a Special Form and Its Applications, **259**: 329-346
- GUTIÉRREZ, J. C.: See González, S.
- HADJIDIMOS, A. AND YEYIOS, A. K.: Some Notes on Multisplitting Methods and  $m$ -Step Preconditioners for Linear Systems, **248**:277-301
- HALL, FRANK J.: See Eschenbach, Carolyn A.
- HALL, FRANK: See Li, Zhongshan
- HALL, FRANK, POTHEN, ALEX, UHLIG, FRANK, AND VAN DOOREN, PAUL: Proceedings of the Fifth Conference of the International Linear Algebra Society, Preface and Conference Report, **254**:1-5
- HANZON, BERNARD AND PEETERS, RALF L. M.: A Faddeev Sequence Method for Solving Lyapunov and Sylvester Equations, **241-243**:401-430
- HAPPEL, DIETER: The Trace of the Coxeter Matrix and Hochschild Cohomology, **258**:169-177
- HARTFIEL, D. J.: Similitudes and the  $I_1$ -Norm, **245**:305-319
- HARTWIG, ROBERT E.: See Mani, Vaidyanath
- HARTWIG, ROBERT E. AND KATZ, IRVING J.: On Products of EP Matrices, **252**:339-345
- HAUKKANEN, PENTTI: On Meet Matrices on Posets, **249**:111-123
- HAUKKANEN, PENTH, WANG, JUN, AND SILLANPÄÄ, JUHA: On Smith's Determinant, **258**:251-269
- HAYDEN, T. L., LEE, JON, WELLS, JIM, AND TARAZAGA, P.: Block Matrices and Multispherical Structure of Distance Matrices, **247**:203-216
- HAYTON, G. E.: See Johnson, D. S.
- HEINIG, G., SAKHNOVICH, L. A., AND TIDNIUK, I. F.: Paired Cauchy Matrices, **251**:189-214
- HEINIG, GEORG: See Feldman, Sven
- HEINIG, GEORG: The Group Inverse of the Transformation  $\mathcal{S}(X) = AX - XB$ , **257**: 321-342
- HEINIG, GEORG AND BOJANCZYK, ADAM: Transformation Techniques for Toeplitz and Toeplitz-plus-Hankel Matrices. I. Transformations, **254**:193-226
- HENNIGER, J. P.: Factorization and Similarity in  $GL(2, \mathbb{Z})$ , **251**:223
- HENTZEL, IRVIN R.: See Ashlock, Daniel A.
- HERNÁNDEZ, VICENTE: See Bru, Rafael
- HERSHKOWITZ, DANIEL, HUANG, WENCHAO, NEUMANN, MICHAEL, AND SCHNEIDER, HANS: Minimization of Norms and the Spectral Radius of a Sum of Nonnegative Matrices Under Diagonal Equivalence, **241-243**:431-453
- HILL, RICHARD D.: See Olson, Curtis J.
- HILL, RICHARD D.: See Siler, Joseph R.
- HILL, RICHARD O., JOHNSON, CHARLES R., AND KROSCHER, BRENDA K.: Extended Interlacing Intervals, **254**:227-239
- HODEL, A. SCOTTEDWARD AND MISRA, PRADEEP: Solution of Underdetermined Sylvester Equations in Sensor Array Signal Processing, **249**:1-14
- HOFFMAN, A. J.: See Cao, Dasong
- HOFFMANN, J. W. AND FUHRMANN, P. A.: On Balanced Realizations of Bounded Real and Positive Real Functions, **245**:107-146
- HOFMEISTER, M.: On the Two Largest Eigenvalues of Trees, **260**:43-59
- HOLBROOK, JOHN, OMLADIĆ, MATJAŽ, AND SEMRL, PETER: Maximal Spectral Distance, **249**:197-205
- HOLTZ, O. V.: On Indecomposable Normal Matrices in Spaces With Indefinite Scalar Product, **259**:155-168
- HOLTZ, O. V. AND STRAUSS, V. A.: Classification of Normal Operators in Spaces With Indefinite Scalar Product of Rank 2, **241-243**:455-517
- HOLTZ, O. V. AND STRAUSS, V. A.: On Classification of Normal Operators in Real Spaces With Indefinite Scalar Product, **255**:113-155
- HONG, SUN MIN: See Song, Seok-Zun
- HOU, JINCHUAN: See Choi, Man-Duen
- HOU, JINCHUAN: Completion of Operator Partial Matrices to Projections, **246**:71-82
- HOU, XIANG-DONG: On the Centralizer of the Centralizer of a Matrix, **256**:251-261
- HUA, DAI AND LANCASTER, PETER: Linear Matrix Equations From an Inverse Problem of Vibration Theory, **246**:31-47
- HUANG, LIPING AND LIU, JIANZHOU: The Extension of Roth's Theorem for Matrix Equations Over a Ring, **259**:229-235
- HUANG, WENCHAO: See Hershkowitz, Daniel
- HUANG, WENCHAO: Matrices Which Belong to an Idempotent in a Sandwich Semigroup of Circulant Boolean Matrices, **249**:157-167
- HUBBERS, ENGELBERT: See van den Essen, Arno
- HUDELSON, MATTHEW, KLEE, VICTOR, AND LARMAN, DAVID: Largest  $j$ -Simplexes in  $d$ -Cubes: Some Relatives of the Hadamard Maximum Determinant Problem, **241-243**:519-598
- HUME, DAVID: See Breen, Michael



- HUNG, Y. S.: See Lam, James
- HUYLEBROUCK, D.: The Generalized Inverse of a Sum With Radical Element: Applications, **246**:159-175
- HWANG, SUK-GEUN: See Brualdi, Richard
- HWANG, SUK-GEUN: See Song, Seok-Zun
- HWANG, SUK-GEUN AND SHIN, SUN-JEONG: A Face of the Polytope of Doubly Stochastic Matrices Associated With Certain Matrix Expansions, **253**:125-140
- IKEBE, YASUHIKO, ASAI, NOBUYOSHI, MIYAZAKI, YOSHINORI, AND CAI, DONGSHENG: The Eigenvalue Problem for Infinite Complex Symmetric Tridiagonal Matrices With Application, **241-243**:599-618
- IKRAMOV, KH. D.: See Elsner, L.
- ILTYAKOV, A. V.: On Polynomial Identities of Jordan Pairs of Rectangular Matrices, **260**:257-271
- INABA, HIROSHI AND WANG, WEIBEN: Block Decoupling for Linear Systems Over Rings: **241-243**:619-634
- JACKMAN, D. K.: See Cowen, C. C.
- JACOBS, DAVID P. AND TREVISAN, VILMAR: The Determinant of a Tree's Neighborhood Matrix, **256**:235-249
- JAIN, S. K.: See Bapat, R. B.
- JANK, G.: See Freiling, G.
- JANSSON, C.: Calculation of Exact Bounds for the Solution Set of Linear Interval Systems, **251**:321-340
- Ji, CHUANXIANG: See Shivakumar, P. N.
- JIA, RONG-QING: Symmetric Magic Squares and Multivariate Splines, **250**:69-103
- JIA, ZHONGXIAO: Refined Iterative Algorithms Based on Arnoldi's Process for Large Unsymmetric Eigenproblems, **259**:1-23
- JIANG, ERXIONG AND ZHAN, XINGZHI: Lower Bounds for the Spread of a Hermitian Matrix, **256**:153-163
- JOHNSON, CHARLES R.: See Eschenbach, Carolyn A.
- JOHNSON, CHARLES, R.: See Hill, Richard O.
- JOHNSON, CHARLES R., LOEWY, RAPHAEL, OLESKY, D. D., AND VAN DEN DRIESCHE, P.: Maximizing the Spectral Radius of Fixed Trace Diagonal Perturbations of Nonnegative Matrices, **241-243**:635-654
- JOHNSON, CHARLES R. AND MILLER, JEREMY: Rank Decomposition Under Combinatorial Constraints, **251**:97-104
- JOHNSON, CHARLES R. AND SMITH, RONALD L.: The Completion Problem for  $M$ -Matrices and Inverse  $M$ -Matrices, **241-243**:655-667
- JOHNSON, D. S., PUGH, A. C., ROGERS, E., HAYTON, G. E., AND OWENS, D. H.: A Polynomial Matrix Theory for a Certain Class of Two-Dimensional Linear Systems, **241-243**:669-703
- JORDÁN, C., TORREGROSA, F. R., AND URBANO, A.: On the Jordan Form of Completions of Partial Upper Triangular Matrices, **254**:241-250
- JUHÁSZ, FERENC: On the Structural Eigenvalues of Block Random Matrices, **246**:225-231
- JUN, YOUNG-BAE: See Song, Seok-Zun
- KAASHOEK, M. A.: See Bart, H.
- KAASHOEK, M. A.: See Gohberg, I.
- KABADI, S. N.: See Chandrasekaran, R.
- KAILATH, THOMAS AND OLSHEVSKY, VADIM: Diagonal Pivoting for Partially Reconstructible Cauchy-like Matrices, With Applications to Toeplitz-like Linear Equations and to Boundary Rational Matrix Interpolation Problems, **254**:251-302
- KANDIC', DRAGAN B., PARLETT, BERESFORD, RELJIN, BRANIMIR, AND VASIC', PETAR M.: Explicit Construction of Hyperdominant Symmetric Matrices With Assigned Spectrum, **258**:41-51
- KARAMPETAKIS, N. P.: Computation of the Generalized Inverse of a Polynomial Matrix and Applications, **252**:35-60
- KARCANIAS, NICOS AND LEVENTIDES, JOHN: Grassmann Invariants, Matrix Pencils, and Linear System Properties, **241-243**:705-731
- KATZ, IRVING J.: See Hartwig, Robert E.
- KEELER, DENNIS S., RODMAN, LEIBA, AND SPITKOVSKY, ILYA M.: The Numerical Range of  $3 \times 3$  Matrices, **252**:115-139
- KIM, AN-HYUN: See Beasley, LeRoy B.
- KIM, JEONGOOK: See Ball, Joseph A.
- KIM, SEON-JEONG: See Song, Seok-Zun
- KIRKLAND, STEVE: A Note on the Eigenvalues of a Primitive Matrix With Large Exponent, **253**:103-112
- KIRKLAND, STEVE: A Note on the Sequence of Brualdi-Li Matrices, **248**:233-240
- KIRKLAND, STEVE: On the Minimum Perron Value for an Irreducible Tournament Matrix, **244**:277-304
- KIWIEL, KRZYSZTOF C.: Monotone Gram Matrices and Deepest Surrogate Inequalities in Accelerated Relaxation Methods for Convex Feasibility Problems, **252**:27-33

- KLATTE, DIETHARD AND THIÈRE, GISEBERT: A Note of Lipschitz Constants for Solutions of Linear Inequalities and Equations, **244**: 365-374
- KLEE, VICTOR: *See* Hudelson, Matthew
- KNOTT, M.: *See* Smith, C. S.
- KNÜPPEL, FRIEDER: *See* Bünger, Florian
- KOHNEN, WINFRIED: On the Generators of  $SP_n(\mathbb{Z})$ , **253**:363-367
- KOLEŠAR, KAROL: *See* Chen, Yonghong
- KONSTANTINOV M. M., PETKOV, P. HR., GU, D.-W., AND POSTLETHWAITE, I.: Perturbation Analysis of Orthogonal Canonical Forms, **251**:267-291
- KOPELIOVICH, YAACOV: *See* Adin, Ron M.
- KOPOTUN, KIRILL A.: A Note on the Convexity of the Sum of Subpermanents, **245**:157-169
- KOPPINEN, M.: Three Automorphism Theorems for Triangular Matrix Algebras, **245**:295-304
- KOS, J.: *See* Gohberg, I.
- KOŠIR TOMAŽ: *See* Grunensfelder, Luzius
- KOŠIR TOMAŽ: Kronecker Bases for Linear Matrix Equations, With Application to Two-Parameter Eigenvalue Problems, **249**:259-288
- KOUKOUVINOS, C., MITROULI, M., AND SEBERRY, JENNIFER: On the Smith Normal Form of  $D$ -Optimal Designs, **247**:277-295
- KROON, L. G.: *See* Bart, H.
- KROON, LEO G.: *See* Bart, Harm
- KROSCHTEL, BRENDA K.: *See* Hill, Richard O.
- KRUPNIK, NAUM AND ROCH, STEFFEN: On Invertibility Symbols in Banach Algebras, **245**:77-81
- KUZNETSOV, S. V.: *See* Carpraux, J.-F.
- KWATNY, HARRY G.: *See* Berg, Jordan M.
- LABAHN, GEORGE: *See* Storjohann, Arne
- LABRA, ALICIA: *See* Andrade, Raúl
- LAKSHMINARAYANAN, S.: *See* Chandrasekaran, R.
- LAKSHMINARAYANAN, SAMBHAVI AND CHANDRASEKARAN, R.: Tessellation and  $g$ -Tessellation of Circulants,  $Q_6$ , and  $Q_8$ , **245**:191-222
- LAM, JAMES AND HUNG, Y. S.: On the Stability of Projections of Balanced Realizations, **257**:163-182
- LANCASTER, P., MARKUS, A. S., AND ZIZLER, P.: The Order of Neutrality for Linear Operators on Inner Product Spaces, **259**:25-29
- LANCASTER, PETER: *See* Hua, Dai
- LANGE, EHLE: Substitutions for Linear Shift Register Sequences and the Factorization Algorithms of Berlekamp and Niederreiter, **249**:217-228
- LARMAN, DAVID: *See* Hudelson, Matthew
- LAUB, A. J.: *See* Clements, D. J.
- LAURENT, MONIQUE: The Real Positive Semidefinite Completion Problem for Series-Parallel Graphs, **252**:347-366
- LAVRIČ, BORIS: Monotonicity Properties of Certain Classes of Norms, **259**:237-250
- LAY, DAVID C.: *See* Ellis, Robert L.
- LEE, CHENG: *See* Chang, Shu-Chu
- LEE, G.-Y., LEE, S.-G., AND SHIN, H.-G.: On the  $K$ -Generalized Fibonacci Matrix  $Q_k$ , **251**:73-88
- LEE, JEFFREY M. AND WEINBERG, DAVID A.: A Note on Canonical Forms for Matrix Congruence, **249**:207-215
- LEE, JON: *See* Hayden, T. L.
- LEE, S.-G.: *See* Bercovici, Hari
- LEE, WOO YOUNG: *See* Beasley, LeRoy B.
- LERER, L.: Factorization of Banded Lower Triangular Infinite Matrices, **247**:347-357
- LEV, ARIEH: Powers of 1-Cyclic Conjugacy Classes in the Groups  $GL_n(F)$  and  $SL_n(F)$ , **257**:243-281
- LEVENTIDES, JOHN: *See* Karcianas, Nicos
- LEVY, BERNARD C.: *See* Ferrante, Augusto
- LEWKOWICZ, ISCHAK: *See* Cohen, Nir
- LI, BIN: *See* Shao, Jia-Yu
- LI, CHI-KWONG AND MATHIAS, ROY: Matrix Inequalities and Partial Isometries That Arise in X-Ray Crystallography, **254**:303-314
- LI, CHI-KWONG AND WOERDEMAN, HUGO J.: Special Classes of Positive and Completely Positive Maps, **255**:247-258
- LI, CHI-KWONG, TSING, NAM-KIU, AND ZHANG, FUZHEN: Norm Hull of Vectors and Matrices, **257**:1-27
- LI, REN-CANG: *See* Cao, Zhi-hao
- LI, T. Y. ZHANG, ZHINAN, AND WANG, TIANJUN: Determining the Structure of the Jordan Normal Form of a Matrix by Symbolic Computation, **252**:221-259
- LI, WING SUET: *See* Lee, C.-Y.
- LI, XIEZHANG: A Uniform Error Bound for the Overrelaxation Methods, **254**:315-333
- LI, ZHONGSHAN: *See* Eschenbach, Carolyn A.
- LI, ZHONGSHAN, HALL, FRANK, AND ZHANG, FUZHEN: Sign Patterns of Nonnegative Normal Matrices, **254**:335-354
- LIN, KUN-YI: *See* Ferng, William R.
- LIN, WEN-WEI: *See* Ferng, William R.
- LIN, ZHANG YU: *See* Marques, M. Graça
- LIU, SHUANGZHE AND NEUDECKER, HEINZ: Kantorovich and Cauchy-Schwarz Inequalities Involving Positive Semidefinite Matrices and Efficiency Comparisons for a Singular Linear Model, **259**:209-221



- LOEWY, R.: An Inertia Theorem for Lyapunov's Equation and the Dimension of a Controllability Space, **260**:1-7
- LOEWY, RAPHAEL: *See* Johnson, Charles R.
- LONDON, DAVID: On Diagonals of Matrices Doubly Stochastically Similar to a Given Matrix, **244**:305-340
- LÓPEZ, A. FERNÁNDEZ, RUS, E. GARCÍA, LOZANO, M. GÓMEZ, AND MOLINA, M. SILES: Jordan Canonical Form for Finite Rank Elements in Jordan Algebras, **260**:151-167
- LOPEZ, L. AND POLITI, T.: Tridiagonal Splittings in the Conditioning and Parallel Solution of Banded Linear Systems, **251**:249-265
- LOZANO, M. GÓMEZ: *See* López, A. Fernández
- LUDY, THOMAS J., MAYBEE, JOHN, AND VAN BUSKIRK, JAMES: On Maximal Sign-Nonsingular Matrices, **247**:55-81
- LUNDQUIST, MICHAEL AND BARRETT, WAYNE: Rank Inequalities for Positive Semidefinite Matrices, **248**:91-100
- LUNDY, THOMAS, MAYBEE, JOHN S., OLESKY, D. D., AND VAN DEN DRIESCHE, P.: Spectra and Inverse Sign Patterns of Nearly Sign-Nonsingular Matrices, **249**:325-339
- LUO, XIAO-DONG AND TSENG, PAUL: On a Global Projection-Type Error Bound for the Linear Complementarity Problem, **253**:251-278
- LUOLUO, LI: On Solvability of Inverse Eigenvalue Problems With Hermitian Matrices, **253**:89-101
- MAGRET, M<sup>a</sup> D.: *See* Garcia-Planas, Ma I.
- MAHONY, R. E.: The Constrained Newton Method on a Lie Group and the Symmetric Eigenvalue Problem, **248**:67-89
- MALHOTRA, MANISH: *See* Freund, Roland W.
- MALIAKAS, MIHALIS: On a Character Formula Involving Borel Subgroups, **247**:273-275
- MANI, VAIDYANATH AND HARTWIG, ROBERT E.: Black Box Interpolation. II. The One Variable Derogatory Case, **249**:229-253
- MANI, VAIDYANATH AND HARTWIG, ROBERT E.: Generalized Polynomial Bases and the Bezoutian, **251**:293-320
- MARCELLÁN, F. AND PETRONILHO, J.: Eigenproblems for Tridiagonal 2-Toeplitz Matrices and Quadratic Polynomial Mappings, **260**:169-208
- MARCHI, EZIO, PUENTE, RUBÉN, AND VERA DE SERIO, VIRGINIA N.: Quasipolyhedral Sets in Linear Semiinfinite Inequality Systems, **255**:157-169
- MARITZ, MILTON: *See* Aharoni, Ron
- MARKHAM, THOMAS L.: *See* Fiedler, Miroslav
- MARKUS, A. S.: *See* Lancaster, P.
- MARQUES, M. GRAÇA AND SILVA, FERNANDO, C.: The Characteristic Polynomial of a Matrix With Prescribed Off-Diagonal Blocks, **256**:21-29
- MARQUES, M. GRAÇA, SILVA, FERNANDO C., AND LIN, ZHANG YU: The Number of Invariant Polynomials of a Matrix With Prescribed Complementary Principal Submatrices, **251**:167-179
- MARQUES, MARIA DE GRAÇA: The Number of Invariant Polynomials of a Matrix With Prescribed Off-Diagonal Blocks, **258**:149-158
- MARSDEN, JERROLD E.: *See* Getz, Neil H.
- MARTINEZ, C.: *See* González, S.
- MAS, JOSÉ, MIGALLÓN, VIOLETA, PENADÉS, JOSÉ, AND SZYLD, DANIEL B.: Nonstationary Parallel Relaxed Multisplitting Methods, **241-243**:733-747
- MATHAI, A. M. AND PEDERZOLI, GIORGIO: Some Properties of Matrix-Variate Laplace Transforms and Matrix-Variate Whittaker Functions, **253**:209-226
- MATHIAS, ROY: *See* Li, Chi-Kwong
- MATSON, J. B.: *See* Clements, D. J.
- MAYBEE, JOHN: *See* Lundy, Thomas J.
- MAYBEE, JOHN S.: *See* Lundy, Thomas
- MEHRMANN, VOLKER: A Step Toward a Unified Treatment of Continuous and Discrete Time Control Problems, **241-243**:749-779
- MENDLOVITZ, MARK A.: Eigenvector Saddles and Zero Properties of the Eigenpolynomial Factors, **259**:281-298
- MERIKOSKI, JORMA KAARLO, URPALA, UOTI, VIRTANEN, ARI, TAM, TIN-YAU, AND UHLIG, FRANK: A Best Upper Bound for the 2-Norm Condition Number of a Matrix, **254**:355-365
- MESHULAM, ROY: *See* Aharoni, Ron
- MESSAOUDI, A.: Matrix Extrapolation Algorithms, **256**:49-73
- MICHALETZKY, GYÖRGY: A Note on Hankel Approximation of All-Pass Functions, **255**:19-55
- MICHLER, GERHARD O.: *See* Collan, Holger W.
- MIGALLÓN, V.: *See* Fuster, R.
- MIGALLÓN, VIOLETA: *See* Mas, José
- MILLER, JEREMY: *See* Johnson, Charles R.
- MILSTEIN, JAIME: *See* Moeller, Thomas L.
- MIN, ZHANG KE: *See* Xi, Chen
- MIRANDA, HECTOR AND THOMPSON, ROBERT C.: A Supplement to the van Neumann Trace Inequality for Singular Values, **248**:61-66

- MIRANKER, WILLARD L.: A Cache for an Associative Memory, **251**:181-188
- MISRA, PRADEEP: See Hodel, A. Scottedward
- MITRA, SUJIT KUMAR: Noncore Square Matrices Miscellany, **249**:47-66
- MITRA, SUJIT KUMAR AND PRASAD, K. MANJUNATHA: The Nonunique Parallel Sum, **259**:77-99
- MITROULI, M.: See Koukouvinos, C.
- MIYAZAKI, YOSHINORI: See Ikebe, Yasuhiko
- MOELLER, THOMAS L. AND MILSTEIN, JAIME: Algebraic Representations for Finite-State Machines. II. Module Formulation, **247**:133-150
- MOLINA, M. SILES: See López, A. Fernández
- MORRIS, WALTER D., JR.: Extended  $P$ -Pairs, **257**:211-223
- MULLIN, RONALD C.: See Blake, Ian F.
- MURTHY, G. S. R., PARTHASARATHY, T., AND SRIPARNA, B.: Constructive Characterization of Lipschitzian  $Q_0$ -Matrices, **252**:323-337
- NEVDAL: On a Generalization of the Trigonometric Moment Problem, **258**:1-18
- NABBen, REINHARD: See Friedland, Shmuel
- NABBen, REINHARD:  $Z$ -Matrices and Inverse  $Z$ -Matrices, **256**:31-48
- NAKAMOTO, RITSUO: The Spherical Cap of Operators, **251**:89-95
- NEUBAUER, M. G. AND RADCLIFFE, A. J.: The Maximum Determinant of  $\pm 1$  Matrices, **257**:289-306
- NEUDECKER, HEINZ: See Liu, Shuangzhe
- NEUFELD, STEWART W.: A Diameter Bound on the Exponent of a Primitive Directed Graph, **245**:27-47
- NEUMANN, M.: See Chen, Yonghong
- NEUMANN, MICHAEL: See Hershkowitz, Daniel
- NEWMAN, MORRIS: The Smith Normal Form, **254**:367-381
- NG, MICHAEL K.: Band Preconditioners for Block-Toeplitz - Toeplitz-Block Systems, **259**:307-327
- NIELSEN, KLAUS: See Bünger, Florian
- NIJEUWENHUIS, HERMAN J. AND SCHOONBEEK, LAMBERT: Stability of Matrices With Sufficiently Strong Negative-Dominant-Diagonal Submatrices, **258**:195-217
- NIJEUWENHUIS, J. W.: About Limit Matrices of Finite-State Markov Chains, **250**:219-223
- NORMAN, C. W.: On the Jordan Form of a Family of Linear Mappings, **257**:225-241
- NOVEMBER, LAURENCE J.: Rotation and Lorentz Transformations in  $2 \times 2$  and  $2 \times 4$  Complex Matrices and in Polarized-Light Physics, **254**:383-408
- NUTOV, ZEEV: See Borobia, Alberto
- NYLEN, PETER M.: Minimum-Rank Matrices With Prescribed Graph, **248**:303-316
- NYLEN, PETER AND UHLIG, FRANK: Inverse Eigenvalue Problems Associated With Spring-Mass Systems, **254**:409-425
- OARÄ CHRISTIAN: Stabilizing Solution to the Reverse Discrete-Time Riccati Equation: A Matrix-Pencil-Based Approach, **246**:113-130
- OHARA, ATSUMI, SUDA, NOBUHIDE, AND AMARI, SHUN-ICHI: Dualistic Differential Geometry of Positive Definite Matrices and Its Applications to Related Problems, **247**:31-53
- OLESKY, D. D.: See Fallat, Shaun
- OLESKY, D. D.: See Green, Bryan C. J.
- OLESKY, D. D.: See Johnson, Charles R.
- OLESKY, D. D.: See Lundy, Thomas
- OLSHEVSKY, VADIM: See Kailath, Thomas
- OLSON, CURTIS J. AND HILL, RICHARD D.: On Dissipative Matrices, **249**:93-109
- OMLADIĆ, MATJAŽ: See Holbrook, John
- OMLADIĆ, MATJAŽ AND RADJAVI, HEYDAR: Irreducible Semigroups With Multiplicative Spectral Radius, **251**:59-72
- OMLADIĆ, MATJAŽ, AND SEMRL, PETER: Matrix Spaces With Bounded Number of Eigenvalues, **249**:29-46
- ORTIZ DE ELGUEA LOURDES: See Gracia, Juan-Miguel
- O'RYAN, MANUEL AND SHAPIRO, DANIEL B.: On Trace Forms of Higher Degree, **246**:313-333
- OTACHEL, Z.: Spectral Orders and Isotone Functionals, **252**:159-172
- OWENS, D. H.: See Johnson, D. S.
- PANG, CHIN-TZONG: See Shig, Mau-Hsiang
- PAPRZYCKI, M.: See Amodio, P.
- PARLETT, BERESFORD: See Kandić, Dragan B.
- PARTHASARATHY, T.: See Murthy, G. S. R.
- PATE, THOMAS H.: A Machine for Producing Inequalities Involving Immanants and Other Generalized Matrix Functions, **254**:427-466
- PATE, THOMAS H.: Exterior Products, Elementary Symmetric Functions, and the Fischer Determinant Inequality, **255**:203-242
- PATI, S.: See Bapat, R. B.
- PATTON, LINDA J.: Some Solutions to the Matrix Equation for Three Point Nevanlinna-Pick Interpolation of the Bidisc, **254**:467-484
- PAVLOV, VELISAR: See Yalamov, Plamen
- PEDERZOLI, GIORGIO: See Mathai, A. M.
- PEETERS, RALF L. M.: See Hanzon, Bernard

- PELED, URI N.: See Atkin, A. O. L.
- PENADÉS, J.: See Fuster, R.
- PENADÉS, JOSÉ: See Mas, José
- PENN, MICHAEL: See Borobia, Alberto
- PETKOV, P. HR.: See, Konstantinov, M. M.
- PETRONILHO, J.: See Marcellán, F.
- PETZ, DÉNES: Monotone Metrics on Matrix Spaces, **244**:81-96
- PHILIPPE, B. AND SADKANE, M.: Computation of the Fundamental Singular Subspace of a Large Matrix, **257**:77-104
- PIERCE, WILLIAM H.: A Self-Correcting Matrix Iteration for the Moore-Penrose Generalized Inverse, **244**:357-363
- POLITI, T.: See Lopez, L.
- POSTLETHWAITE, I.: See Konstantinov, M. M.
- PRASAD, K. MANJUNATHA: See Mitra, Sujit Kumar
- PRICE, GEOFFREY L.: See Culler, Kristen W.
- PTÁK, VLASTIMIL: See Fiedler, Miroslav
- PUNTE, RUBÉN: See Marchi, Ezio
- PUERTA, F.: See Ferrer, J.
- PUGH, A. C.: See Johnson, D. S.
- PYO, SUNG-SOO: See Brualdi, Richard
- RABIER, PATRICK J. AND RHEINBOLDT, WERNER C.: Classical and Generalized Solutions of Time-Dependent Linear Differential-Algebraic Equations, **245**:259-293
- RABIER, PATRICK J. AND RHEINBOLDT, WERNER C.: Time-Dependent Linear DAEs With Discontinuous Inputs, **247**:1-29
- RADCLIFFE, A. J.: See Neubauer, M. G.
- RADJAVI, HEYDAR: See Omladić Matjaž
- RADWAN, NIZAR: An Inverse Eigenvalue Problem for Symmetric and Normal Matrices, **245**:101-109
- RAHMANI, A., SUEUR, C., AND DAUPHIN-TANGUY, G.: Approche des Bond Graphs pour l'Analyse Structurelle des Systèmes Linéaires, **259**:101-131
- RAM, YITSHAK M.: See Datta, Biswa N.
- RAN, A. C. M.: See Bart, H.
- RAN, ANDRÉ AND ZIZZLER, PETER: On Self-Adjoint Matrix Polynomials With Constant Signature, **259**:133-153
- RATH, WERNER: Derivative and Proportional State Feedback for Linear Descriptor Systems With Variable Coefficients, **260**:273-310
- RAVI, M. S.: Geometric Methods in Rational Interpolation Theory, **258**:159-168
- RAZAFINJATOVO, HAJA N.: Discrete Irregular Sampling With Larger Caps, **251**:351-372
- REAMS, ROBERT: A Galois Approach to  $m$ th Roots of Matrices With Rational Entries, **258**:187-194
- REICHEL, L.: See Ammar, G. S.
- RELJIN, BRANIMIR D.: See Kandić, Dragan B.
- RHEINBOLDT, WERNER C.: See Rabier, Patrick J.
- RHODIUS, ADOLF: On the Maximum of Ergodicity Coefficients, the Dobrushin Ergodicity Coefficient, and Products of Stochastic Matrices, **253**:141-154
- RIECK, M. Q.: Totally Isotropic Subspaces, Complementary Subspaces, and Generalized Inverses, **251**:239-248
- ROCH, STEFFEN: See Krupnik, Naum
- RODMAN, LEIBA: See Keeler, Dennis S.
- ROESLER, FRIEDRICH: Bateman's Equation and Similar Units, **250**:253-273
- ROGERS, E.: See Johnson, D. S.
- ROSENTHAL, PETER: See Choi, Man-Duen
- ROTHBLUM, URIEL G. AND SCHNEIDER, HANS: A Solution of a Nonlinear System Arising in Spectral Perturbation Theory of Nonnegative Matrices, **258**:53-80
- RUDOLPH, J.: Duality in Time-Varying Linear Systems: A Module Theoretic Approach, **245**:83-106
- RUS, E. GARCIA: See López, A. Fernández
- SADKANE, M.: See Godunov, S. K.
- SADKANE, M.: See Philippe, B.: Computation of the Fundamental Singular Subspace of a Large Matrix, **257**:77-104
- SAKHNOVICH, L. A.: See Heinig, G.
- SALDANHA, NICOLAU C. AND TOMEI, CARLOS: The Accumulated Distribution of Quadratic Forms on the Sphere, **245**:335-351
- SALICHS, MIQUEL: See Tolsa, Javier
- SÁNCHEZ, ELENA: See Bru, Rafael
- SCHNEIDER, HANS: See Hershkowitz, Daniel
- SCHNEIDER, HANS: See Rothblum, Uriel, G.
- SCHOLTES, STEFAN: A Proof of the Branching Number Bound for Normal Manifolds, **246**:83-95
- SCHOONBEEK, LAMBERT: See Nieuwenhuis, Herman J.
- SCHUMACHER, J. M.: See Cevic, M. K. K.
- SEBERRY, JENNIFER: See Koukouvinos, C.
- SEIDEL, J. J.: A Sound Equilibrium for Linear Algebra, **241-243**:781-785
- ŠEMRL, PETER: See Holbrook, John
- ŠEMRL, PETER: See Omladić Matjaž
- SEXAUER, E. A.: See Cowen, C. C.
- SHADER, BRYAN L.: See Gregory, David A.
- SHANGJUN, YANG: See Tam, Bit-Shun

- SHAO, JIA-YU AND LI, BIN: The Set of Generalized Exponents of Primitive Simple Graphs, **258:95-127**
- SHAOWU, LIU: Linear Maps Preserving Idempotence on Matrix Modules Over Principal Ideal Domains, **258:219-231**
- SHAPIRO, DANIEL B.: See O'Ryan, Manuel
- SHEN, JIAN: A Bound on the Exponent of Primitivity in Terms of Diameter, **244:21-33**
- SHEN, JIAN: A Problem on the Exponent of Primitive Digraphs, **244:255-264**
- SHEN, JIAN: Some Estimated Formulas for the Frobenius Numbers, **244:13-20**
- SHIH, MAU-HSIANG, WU, JINN-WEN, AND FANG, CHIN-TZONG: Asymptotic Stability and Generalized Gelfand Spectral Radius Formula, **252:61-70**
- SHIN, H.-G.: See Lee, C.-Y.
- SHIN, SUN-JEONG: See Hwang, Suk-Geun
- SHIVAKUMAR, P. N. AND JI, CHUANXIANG: Upper and Lower Bounds for Inverse Elements of Finite and Infinite Tridiagonal Matrices, **247:297-316**
- SILBERMANN, BERND: Asymptotic Moore-Penrose Inversion of Toeplitz Operators, **256:219-234**
- SILER, JOSEPH R. AND HILL, RICHARD D.: Matricial Inner Products and Pointed Cones of Hermitian-Preserving Linear Transformations, **257:183-191**
- SILLANPÄÄ, JUHA: See Haukkanen, Pentti
- SILVA, FERNANDO C.: See Marques, M. Graça
- SILVA, FERNANDO C.: On a Conjecture About the Jordan Form of Completions of Partial Upper Triangular Matrices, **260:319-321**
- SILVA, FERNANDO: Possible Block Similarity Classes of a Matrix With a Prescribed Non-principal Submatrix, **249:359-373**
- SIMONCINI, V.: Ritz and Pseudo-Ritz Values Using Matrix Polynomials, **241-243:787-801**
- SIMONCINI, V. AND GALLOPOULOS, E.: Convergence Properties of Block GMRES and Matrix Polynomials, **247:97-119**
- SLEIJPEN, G. L. G. AND VAN DER SLUIS, A.: Further Results on the Convergence Behavior of Conjugate-Gradients and Ritz Values, **246:233-278**
- SMITH, C. S. AND KNOTT, M.: Cycle Properties of Square Matrices, **258:345-350**
- SMITH, RONALD L.: See Johnson, Charles R.
- SMOTZER, THOMAS: See Bercovici, Hari
- SOBCZYK, GARRET: Structure of Factor Algebras and Clifford Algebra, **241-243:803-810**
- SODUPE, MARIA-JOSÉ: See Gracia, Juan-Miguel
- SONG, SEOK-ZUN AND HWANG, SUK-GEUN: Spanning Column Ranks and Their Preservers of Nonnegative Matrices, **254:485-495**
- SONG, SEOK-ZUN, HONG, SUN MIN, JUN, YOUNG-BAE, AND KIM, SEON-JEONG: Minimum Permanents on a Face of the Polytope of Doubly Stochastic Matrices, **259:169-182**
- SONG, YONGZHONG: On the Convergence of the Generalized AOR Method, **256:199-218**
- SPITKOVSKY, ILYA M.: See Keeler, Dennis S.
- SRIPARNA, B.: See Murthy, G. S. R.
- STEWART, D. E.: A Graph-Theoretic Model of Symmetric Givens Operations and Its Implications, **257:311-320**
- STEWART, MICHAEL: Cholesky Factorization of Semidefinite Toeplitz Matrices, **254:497-525**
- STOJANOFF, D.: See Andruchow, E.
- STORJOHANN, ARNE AND LABAHN, GEORGE: A Fast Las Vegas Algorithm for Computing the Smith Normal Form of a Polynomial Matrix, **253:155-173**
- STRAUSS, V. A.: See Holtz, O. V.
- STRIKWERDA, JOHN, C.: A Convergence Theorem for Chaotic Asynchronous Relaxation, **253:15-24**
- STYAN, GEORGE P. H. AND SUBAK-SHARPE, GERALD E.: Inequalities and Equalities Associated With the Campbell-Youla Generalized Inverse of the Indefinite Admittance Matrix of Resistive Networks, **250:349-370**
- SUBAK-SHARPE, GERALD E.: See Styan, George P. H.
- SUDA, NOBUHIDE, See Ohara, Atsumi
- SUEUR, C. AND DAUPHIN-TANGUY: Controllability Indices for Structured Systems, **250:275-287**
- SUEUR, C.: See Rahmani, A.
- SUN, JI-GUANG: Backward Error for the Discrete-Time Algebraic Riccati Equation, **259:183-208**
- SUN, JI-GUANG: On Two Functions of a Matrix With Positive Definite Hermitian Part, **244:55-68**
- SUN, JI-GUANG: On the Variation of the Spectrum of a Normal Matrix, **246:215-223**
- SUN, JI-GUANG: Perturbation Analysis of System Hessenberg and Hessenberg-Triangular Forms, **241-243:811-849**
- SUN, JI-GUANG: Perturbation Analysis of the Matrix Sign Function, **250:177-206**
- SZYLD, DANIEL B.: See Mas, José

- TAM, BIT-SHUN: See Barker, George Phillip
- TAM, BIT-SHUN, SHANGJUN, YANG, AND XIAODONG, ZHANG: Invertibility of Irreducible Matrices, **259**:39-70
- TAM, TIN-YAU: See Merikoski, Jorma Kaarlo
- TARAZAGA, P.: See Hayden T. L.
- TASCHE, MANFRED: See Baszenski, Günter
- TERZILER, MEHMET: See Guseinov, Gusein
- THIERE, GIBBERT: See Klatte, Diethard
- THIJSSSE, PHILIP: Upper Triangular Similarity of Upper Triangular Matrices, **260**:119-149
- THIRUMALAI, S.: See Gallivan, K. A.
- THOMPSON, ROBERT C.: See Miranda, Hector
- TIDNIUK, I. F.: See Heinig, G.
- TOFFOLI, TOMMASO: Almost Every Unit Matrix is a ULU, **259**:31-38
- TOLSA, JAVIER AND SALICHS, MIQUEL: Convergence of Singular Perturbations in Singular Linear Systems, **251**:105-143
- TOMEI, CARLOS: See Saldanha, Nicolau C.
- TORREGROSA, F. R.: See Jordán, C.
- TOWERS, D. A. AND BOWMAN, K.: Higher-Order Bernstein Algebras Given by Symmetric Bilinear Forms, **252**:71-79
- TOWERS, DAVID A.: See Bowman, Kevin
- TREVISAN, VILMAR: See Jacobs, David P.
- TSENG, PAUL: See Luo, Xiao-Dong
- TSING, NAM-KIU: See Li, Chi-Kwong
- TRYTSYNIKOV, E.: Matrix Bruhat Decompositions With a Remark on the QR (GR) Algorithm, **250**:61-68
- UHLIG, FRANK: See Merikoski, Jorma Kaarlo
- UHLIG, FRANK: See Nylen, Peter
- UHRIN, B.: Inner Aperiodicities and Partitions of Sets, **241**:851-876
- URBANO, A.: See Jordán, C.
- URPALA, UOTI: See Merikoski, Jorma Kaarlo
- VALCHER, MARIA ELENA: See Fornasini, Ettore
- VALIAHO, H.: Determining the Handicap of a Sufficient Matrix, **253**:279-298
- VAN BAREL, MARC AND BULTHEEL, ADHEMAR: A Generalized Minimal Partial Realization Problem, **254**:527-551
- VAN BUSKIRK, JAMES: See Lundy, Thomas J.
- VAN DEN DRIESCHKE, P.: See Fallat, Shaun
- VAN DEN DRIESCHKE, P.: See Green, Bryan C. J.
- VAN DEN DRIESCHKE, P.: See Johnson, Charles R.
- VAN DEN DRIESCHKE: See Lundy, Thomas
- VAN DEN ESSEN, ARNO AND HUBBERS, ENGELBERT: Polynomial Maps With Strongly Nilpotent Jacobian Matrix and the Jacobian Conjecture, **247**:121-132
- VAN DEN HOF, J. M.: Realization of Positive Linear Systems, **256**:287-308
- VANDER MEULEN, KEVIN N.: See Gregory, David A.
- VAN DER SLUIS, A.: See Sleijpan, G. L. G.
- VAN DOOREN, P.: See Gallivan, K. A.
- VAN WYK, LEON: Matrix Rings Satisfying Column Sum Conditions Versus Structural Matrix Rings, **249**:15-28
- VASIC, PETAR M.: See Kandić, Dragan B.
- VASUDEVA, H. L.: See Aujla, Jaspal Singh
- VAVRIN, ZDENEK: Confluent Cauchy and Cauchy-Vandermonde Matrices, **258**:271-293
- VERA DE SERIO, VIRGINIA N.: See Marchi, Ezio
- VERMAUT, V.: See Gallivan, K. A.
- VINCE, A.: See Cao, Dasong
- VIRTANEN, ARI: See Merikoski, Jorma Kaarlo
- VOGT, C.: See Cowen, C. C.
- WAINBERG, BELLA I. AND WOERDEMAN, HUGO J.: The Maximum Row Length Nonsingularity Radius, **247**:251-263
- WANG, DEREN: See Bai, Zhongzhi
- WANG, GUORONG: Weighted Morre-Penrose, Drazin, and Group Inverses of the Kronecker Product  $A \otimes B$ , and Some Applications, **250**:39-50
- WANG, JIN-HSIEN: Product of Invertible Operators of Quadratic Type, **245**:1-26
- WANG, JUN: See Haukkanen, Pentti
- WANG, TIANJUN: See Li, T. Y.
- WANG, WEIBEN: See Inaba, Hiroshi
- WANG, XIAO-HUI: See Chongguang, Cao
- WANG, ZHENG: See Yong, Xuerong
- WATERHOUSE, WILLIAM C.: Eigenmatrices of a Normal Matrix, **255**:243-246
- WATKINS, DAVID S.: The Transmission of Shifts and Shift Blurring in the QR Algorithm, **241**-**243**:877-896
- WATKINS, WILLIAM: Bilinear Transformations on Matrices: Rank Preservers, **250**:31-38
- WEI, MUSHENG: See Chen, Guoliang
- WEINBERG, DAVID A.: See Lee, Jeffrey M.
- WEISSENHOFER, S.: The Positive Minorant Property on Matrices, **258**:81-94
- WELLS, JIM: See Hayden T. L.
- WENCHANG, CHU: Determinant, Permanent, and MacMahon's Master Theorem, **255**:171-183
- WIENER, ZVI: An Interesting Matrix Exponent Formula, **257**:307-310
- WOERDEMAN, HUGO J.: See Li, Chi-Kwong
- WOERDEMAN, HUGO J.: See Wainberg, Bella I.
- WOODGATE, KEITH G.: Least-Squares Solution of  $F = PG$  Over Positive Semidefinite Symmetric  $P$ , **245**:171-190

- WOOLF, H. J.: See Cowen, C. C.
- WORACEK, HARALD: Nevanlinna-Pick Interpolation: The Degenerated Case, **252**: 141-158
- WOZNICKI, ZBIGNIEW, I.: Comparison Theorems for Regular Splittings on Block Partitions, **253**:199-207
- WU, JINN-WEN: See Shih, Mau-Hsiang
- WU, JUN: A Partial Ordering of  $CS_m$  Defined by the Generalized Matrix Functions, **257**:193-200
- WU, PEI YUAN.: See Fong, Che Kao
- WUWEN, GUO: An Inverse Eigenvalue Problem for Nonnegative Matrices, **249**:67-78
- WYELS, CYNTHIA J.: Permutation Equivalence and the Hermite Invariant, **256**:125-140
- XI, CHEN AND MIN, ZHANG KE: The Upper Bounds of the Generalized Maximum Density Index of Irreducible Boolean Matrices, **256**:75-93
- XIAN, ZHANG: See Chongguang, Cao
- XIAODONG, ZHANG: See Tam, Bit-Shun
- XIE, JIAN-JUN: Residual Bounds for Unitarily Invariant Norms on Clustered Eigenvalues, **252**:107-113
- XIE, JIANJUN: See Zhan, Xingzhi
- XIE, JIANJUN: A Note on the Davis-Kahan  $\sin \Theta$  Theorem, **258**:129-135
- XIE, JIN-JUN: See Cao, Zhi-hao
- XINMIN, WANG: Convergence Theory for the General GAOR Type Iterative Method and the MSOR Iterative Method Applied to H-Matrices, **250**:1-19
- XUE, JUNGONG: A Note on Entrywise Perturbation Theory for Markov Chains, **260**:209-213
- XUE, YIFENG: See Chen, Guoliang
- YALAMOV, PLAMEN AND PAVLOV, VELISAR: Stability of the Block Cyclic Reduction, **249**:341-358
- YEYIOS, A. K.: See Hadjidimos, A.
- YIMIN, WEI AND GURONG, WANG: The Perturbation Theory for the Drazin Inverse and Its Applications, **258**:179-186
- YI-SHENG, YU AND DUN-HE, GU: A Note on a Lower Bound for the Smallest Singular Value, **253**:25-38
- YONG, XUERONG AND WANG, ZHENG: Elliptic Matrices and Their Eigenpolynomials, **259**:347-356
- ZHA, HONGYUAN AND ZHANG, ZHENYUE: The Arnoldi Process, Short Recursions, and Displacement Ranks, **249**:169-188
- ZHAN, XINGZHI: See Jiang, Erdong
- ZHAN, XINGZHI AND XIE, JIANJUN: On the Matrix Equation  $X + A^T X^{-1} A = I$ , **247**:337-345
- ZHANG, FUZHEN: See Li, Chi-Kwong
- ZHANG, FUZHEN: See Li, Zhongshan
- ZHANG, FUZHEN: Quaternions and Matrices of Quaternions, **251**:21-57
- ZHANG, HUI-PIN: See Chen, Gong-ning
- ZHANG, ZHENYUE: See Zha, Hongyuan
- ZHANG, ZHINAN: See Li, T. Y.
- ZHAO, BIN: See Chen, Gong-ning
- ZHI-MING, JIANG: On the Indices of Convergence of Reducible Boolean Matrices With the Generalized Period  $f_0 \geq 2$ , **248**: 355-374
- ZHIZHENG, ZHANG: The Linear Algebra of the Generalized Pascal Matrix, **250**:51-60
- ZHONG-ZHI, BAI: See De-Ren, Wang
- ZHOU, DING-XUAN: Linear Dependence Relations in Wavelets and Tilings, **249**:311-323
- ZIETAK, KRYSZYNA: On Approximation Problems With Zero-Trace Matrices, **247**:169-183
- ZIZLER, P.: See Lancaster, P.
- ZIZLER, PETER: See Ran, André



